

Begin METADATA documentation

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METADATA Contacts

Primary: Naomi Nakagaki
U.S. Geological Survey
NAWQA Pesticide Synthesis Project
6000 J Street, Placer Hall
Sacramento, CA 95819
voice: (916) 278-3092
fax: (916) 278-3071
email: nakagaki@usgs.gov

Alternate: Jeffrey D. Martin
U.S. Geological Survey
NAWQA Pesticide Synthesis Project
5957 Lakeside Boulevard
Indianapolis, IN 46278-1996
voice: (317) 600-2748
fax: (317) 290-3313
email: jdmartin@usgs.gov

METADATA Data Description:

Filename: Appendix3.txt

Source: U.S. Geological Survey Data Series 655, appendix 3.
URL <http://pubs.usgs.gov/ds/655/>

The data provided herein are an UPDATED site and basin information dataset processed similarly to that provided in:

U.S. Geological Survey Scientific Investigations Report 2009-5062, Sources and Preparation of Data for Assessing Trends in Concentrations of Pesticides in Streams of the United States, 1992-2006
URL <http://pubs.usgs.gov/sir/2009/5062/>

Characteristics of 212 stream-water sites are provided in this tab-delimited ASCII file.

NOTE: Six of the sites have two rows of drainage-basin data computed from two different digital

maps of the drainage basin for the site, a "total" drainage area and a smaller, "contributing" drainage area. The remaining 206 sites have only one row of data for the site.

NOTE: Water-quality and streamflow at some sites are highly influenced by the diversion of water into or out of the basin. Nine sites in this dataset are known to be highly influenced by diversions:

pstaid	sname
07373420	Mississippi River near St. Francisville, LA
07374000	Mississippi River at Baton Rouge, LA
07374525	Mississippi River at Belle Chasse, LA
07381495	Atchafalaya River at Melville, LA
07381590	Wax Lake Outlet at Calumet, LA
07381600	Atchafalaya River at Morgan City, LA
08470400	Arroyo Colorado at Harlingen, TX
08475000	Rio Grande near Brownsville, TX
09522000	Colorado River at N. International Boundary above Morelos Dam, AZ

Data users are strongly encouraged to review figures 2-4 and read the section "Considerations of Flow Routing for Selected Basins in the Dataset" in Baker, N.T., 2011, National Stream Quality Accounting Network and National Monitoring Network Basin Boundary Geospatial Dataset, 2008-13: U.S. Geological Survey Data Series Report DS-614, 16 p.
URL <http://pubs.usgs.gov/ds/641/>

NOTE: This is a "row" format data file. Each row contains information about one stream-water site and drainage basin.

This data file contains 218 rows of data (excludes rows of METADATA comments, 1 row of attribute labels, and 1 row of field descriptions).

METADATA Basic documentation of dataset elements:

Data Attributes:

index	9n
pstaid	15S
nTrend	10n

suid	4S
st	2S
sitetd	35S
lat	9N
long	9N
datum	6S
llacc	5S
ndb	9N
dbtype	4S
basmi2	9N
pctinus	9N
lu2006	7S
levlag2006	9N
levlurb2006	9N
lupct_00	9N
lupct_11	9N
lupct_12	9N
lupct_21	9N
lupct_22	9N
lupct_23	9N
lupct_24	9N
lupct_31	9N
lupct_41	9N
lupct_42	9N
lupct_43	9N
lupct_52	9N
lupct_71	9N
lupct_81	9N
lupct_82	9N
lupct_90	9N
lupct_95	9N
popden1990	9N
popden2000	9N
crop1992	9N
crop1997	9N
crop2002	9N
crop2007	9N
domfrr	21S
domfrrcode	10S
frrpct_0	9N

frrpct_1	9N
frrpct_2	9N
frrpct_3	9N
frrpct_4	9N
frrpct_5	9N
frrpct_6	9N
frrpct_7	9N
frrpct_8	9N
frrpct_9	9N
sname	66s

NOTE: The row in the data file that follows the row of attribute labels describes the width of the field and the data type. S or s indicates a text attribute, D or d indicates a date attribute, and N or n indicates a numeric attribute. For example: 15s indicates a 0- to 15-character text attribute whereas 9N indicates a 0- to 9-digit numeric attribute. Attribute labels may be longer than the width of the field.

Attribute label: index

Attribute description: Site index number for figure 1 of the report

Attribute label: pstaidd

Attribute description: U.S. Geological Survey (USGS) site identification number.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

NOTE: pstaidd is the "parent" site identification number. At some sites, the actual location of sample collection (at the "child" site identification number) may have changed during the period of sample collection, but the sites are considered equivalent.

Attribute label: nTrend

Attribute description: Number of water samples for the stream-water site (pstaidd)

considered appropriate for trend analysis
(Data attribute trend = "KEEP" in the appendix 4 data file)

Source: Appendix 4 data file

Attribute label: suid

Attribute description: National Stream Quality Accounting Network (suid = NSQN) or
National Water-Quality Assessment Program Study Unit identifier.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Code	Description
ACAD	Acadian-Pontchartrain Drainages
ACFB	Apalachicola-Chattahoochee-Flint River Basin
ALBE	Albemarle-Pamlico Drainage Basin
CAZB	Central Arizona Basins
CCYK	Central Columbia Plateau-Yakima River Basin
CNBR	Central Nebraska Basins
CONN	Connecticut, Housatonic, and Thames River Basins
DELR	Delaware River Basin
EIWA	Eastern Iowa Basins
GAFL	Georgia-Florida Coastal Plain
GRSL	Great Salt Lake Basins
HDSN	Hudson River Basin
LERI	Lake Erie-Lake Saint Clair Drainages
LINJ	Long Island-New Jersey Coastal Drainages
LIRB	Lower Illinois River Basin
LSUS	Lower Susquehanna River Basin
MISE	Mississippi Embayment
MOBL	Mobile River Basin
NECB	New England Coastal Basins
NSQN	National Stream Quality Accounting Network
NVBR	Las Vegas Valley Area and Carson and Truckee River Basins
OZRK	Ozark Plateaus
PODL	Potomac River Basin and Delmarva Peninsula
PUGT	Puget Sound Basin
REDN	Red River of the North Basin

RIOG	Rio Grande Valley
SACR	Sacramento River Basin
SANA	Santa Ana Basin
SANJ	San Joaquin-Tulare Basins
SANT	Santee River Basin and Coastal Drainages
SCTX	South-Central Texas
SOFL	Southern Florida
SPLT	South Platte River Basin
TENN	Tennessee River Basin
TRIN	Trinity River Basin
UCOL	Upper Colorado River Basin
UIRB	Upper Illinois River Basin
UMIS	Upper Mississippi River Basin
USNK	Upper Snake River Basin
WHMI	White, Great Miami, and Little Miami River Basins
WILL	Willamette Basin
WMIC	Western Lake Michigan Drainages
YELL	Yellowstone River Basin

Attribute label: st

Attribute description: State postal abbreviation for stream-water site.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Attribute label: sitetd

Attribute description: Type of stream-water site (Stream or ditch).

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Attribute label: lat

Attribute description: Latitude, decimal degrees.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Attribute label: long

Attribute description: Longitude, decimal degrees.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Attribute label: datum

Attribute description: Horizontal datum.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Code	Description
NAD27	North American Datum of 1927
NAD83	North American Datum of 1983

Attribute label: llacc

Attribute description: Latitude/longitude accuracy code.

Source: NAWQA Data Warehouse site information retrieval 09-16-2011.

Code	Description
H	Accurate to +/- 0.01 second (differentially corrected GPS)
1	Accurate to +/- 0.1 second (differentially corrected GPS)
5	Accurate to +/- 0.5 second (Precise Positioning Service (PLGR/PPS GPS))
S	Accurate to +/- 1 second
R	Accurate to +/- 3 seconds
F	Accurate to +/- 5 seconds
T	Accurate to +/- 10 seconds
M	Accurate to +/- 60 seconds
U	Unknown

Attribute label: ndb

Attribute description: Number of digital drainage basin maps for the site (1 or 2).

Source: Digital drainage basin maps were provided to Naomi Nakagaki by Study Unit and National Synthesis teams.

NOTE: Six of the sites have two digital drainage-basin maps. A "total" drainage basin map and a smaller, "contributing" drainage basin map. Consequently, these six sites have two rows of data in the file. The remaining 206 sites have only one drainage basin map and only one row of data in the file.

Attribute label: dbtype

Attribute description: Type of drainage basin.

Source: The type of digital drainage basin was specified by the Study Unit and National Synthesis teams for the six sites with two maps per site. For the other 206 sites the type of digital drainage basin map was inferred by Jeff Martin by comparing the drainage area computed from the digital map (basmi2) to the values of total drainage area and contributing drainage area stored in the NAWQA Data Warehouse.

Code	Description
tot	Total drainage basin
con	Contributing drainage basin
both	Total and contributing drainage basins are the same
unk	The type of drainage basin could not be inferred (no values of total drainage area or contributing drainage area were stored in the NAWQA Data Warehouse)

Attribute label: basmi2

Attribute description: Drainage basin area, in square miles (rounded to 0.1 square miles).

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011.

Attribute label: pctinus

Attribute description: Percentage of the drainage basin in the United States of America.

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with a 1:2,000,000-scale digital map of USA international boundaries.

Attribute label: lu2006

Attribute description: Drainage basin land-use class.

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with U.S. Geological Survey's 30-meter resolution National Land Cover Database (NLCD) 2006, (URL <http://www.mrlc.gov/nlcd2006.php>).

Code	Description
ag	Greater than 50% agricultural land and less than or equal to 5% urban land
undev	Less than or equal to 25% agricultural land and less than or equal to 5% urban land
urb	Greater than 25% urban land and less than or equal to 25% agricultural land
mixed	All other combinations of urban, agricultural, and undeveloped land

NOTE: 30-meter resolution NLCD 2006 data were only available for the USA, consequently, drainage basin land-use class was assigned based on the land-use proportions in the USA-part of the drainage basin (see pctinus).

Attribute label: levlag2006

Attribute description: Percentage of agricultural land use in the USA-part of the drainage basin (rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with 30-meter resolution NLCD 2006 land-cover data (URL <http://www.mrlc.gov/nlcd2006.php>).

Attribute label: lev1urb2006

Attribute description: Percentage of urban land use in the USA-part of the drainage basin
(rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National
Synthesis teams as of 08-24-2011, overlain with 30-meter resolution NLCD 2006 land-cover
data (URL <http://www.mrlc.gov/nlcd2006.php>).

Attribute label: lupct_nn (All variables of the form lupct_nn, where nn is a 2-digit
integer code that indicates the type of land use)

Attribute description: Percentage of land-use type in the USA-part of the drainage basin
(rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National
Synthesis teams as of 08-24-2011, overlain with 30-meter resolution NLCD 2006 land-cover
data (URL <http://www.mrlc.gov/nlcd2006.php>).

Attribute subdescription: Land-use codes and type of land use.

lupct_nn	Land use
lupct_00	Unclassified (the non-USA part of the basin)
lupct_11	Open water
lupct_12	Perennial ice/snow
lupct_21	Low intensity residential
lupct_22	High intensity residential
lupct_23	Commercial/industrial/transportation
lupct_24	Developed high intensity
lupct_31	Bare rock/sand/clay
lupct_41	Deciduous forest
lupct_42	Evergreen forest
lupct_43	Mixed forest
lupct_52	Shrub/scrub
lupct_71	Grassland/herbaceous
lupct_81	Pasture/hay
lupct_82	Row crops
lupct_90	Woody wetlands
lupct_95	Emergent herbaceous wetlands

Attribute label: popden1990

Attribute description: 1990 Population density in the USA-part of the drainage basin,
in person per square kilometer (rounded to 0.1 person per square kilometer).

Source: Determined from digital maps of drainage basins provided by Study Unit and National
Synthesis teams as of 08-24-2011, overlain with 100-m resolution 1990 population density by
census block group (URL <http://water.usgs.gov/lookup/getspatial?uspopd90x10g>).

Attribute label: popden2000

Attribute description: 2000 Population density in the USA-part of the drainage basin,
in person per square kilometer (rounded to 0.1 person per square kilometer).

Source: Determined from digital maps of drainage basins provided by Study Unit and National
Synthesis teams as of 08-24-2011, overlain with 100-m resolution 2000 population density by
census block group (URL <http://water.usgs.gov/lookup/getspatial?uspopd00x10g>).

Attribute label: crop1992

Attribute description: Percentage of total cropland in 1992 in the USA-part of the
drainage basin (rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and
National Synthesis teams as of 08-24-2011, overlain with mapped agricultural land
from the 30-m resolution NLCD 2001, version 2 (URL <http://www.mrlc.gov/nlcd2001.php>)
and 2001 county boundaries at the 30-m resolution. The overlay resulted in weights
of agricultural land for all counties intersecting the basin, which were combined
with total cropland by county from the 1992 Census of Agriculture
(URL <http://www.agcensus.usda.gov/Publications/1992/index.asp>). The 2001 county
boundaries dataset was gridded from 1:100,000-scale 1990 county polygons
(URL <http://water.usgs.gov/lookup/getspatial?county100>), post-1990 county polygons
extracted from the 2000 and 2004 TIGER/Line files
(<http://www.census.gov/geo/www/tiger/index.html>), and 1:70,000-scale shoreline boundaries
(URL <http://coastalmap.marine.usgs.gov/GISdata/basemaps/coastlines/nos80k/nos80k-metadata.txt>).

Attribute label: crop1997

Attribute description: Percentage of total cropland in 1997 in the USA-part of the drainage basin (rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with mapped agricultural land from the 30-m resolution NLCD 2001, version 2 (URL <http://www.mrlc.gov/nlcd2001.php>) and 2001 county boundaries at the 30-m resolution. The overlay resulted in weights of agricultural land for all counties intersecting the basin, which were combined with total cropland by county from the 1997 Census of Agriculture (URL <http://www.agcensus.usda.gov/Publications/1997/index.asp>). The 2001 county boundaries dataset was gridded from 1:100,000-scale 1990 county polygons (URL <http://water.usgs.gov/lookup/getspatial?county100>), post-1990 county polygons extracted from the 2000 and 2004 TIGER/Line files (<http://www.census.gov/geo/www/tiger/index.html>), and 1:70,000-scale shoreline boundaries (URL <http://coastalmap.marine.usgs.gov/GISdata/basemaps/coastlines/nos80k/nos80k-metadata.txt>).

Attribute label: crop2002

Attribute description: Percentage of total cropland in 2002 in the USA-part of the drainage basin (rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with mapped agricultural land from the 30-m resolution NLCD 2001, version 2 (URL <http://www.mrlc.gov/nlcd2001.php>) and 2001 county boundaries at the 30-m resolution. The overlay resulted in weights of agricultural land for all counties intersecting the basin, which were combined with total cropland by county from the 2002 Census of Agriculture (URL <http://www.agcensus.usda.gov/Publications/2002/index.asp>). The 2001 county boundaries dataset was gridded from 1:100,000-scale 1990 county polygons (URL <http://water.usgs.gov/lookup/getspatial?county100>), post-1990 county polygons extracted from the 2000 and 2004 TIGER/Line files (<http://www.census.gov/geo/www/tiger/index.html>), and 1:70,000-scale shoreline boundaries (URL <http://coastalmap.marine.usgs.gov/GISdata/basemaps/coastlines/nos80k/nos80k-metadata.txt>).

Attribute label: crop2007

Attribute description: Percentage of total cropland in 2007 in the USA-part of the drainage basin (rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with mapped agricultural land from the 30-m resolution NLCD 2001, version 2 (URL <http://www.mrlc.gov/nlcd2001.php>) and 2001 county boundaries at the 30-m resolution. The overlay resulted in weights of agricultural land for all counties intersecting the basin, which were combined with total cropland by county from the 2007 Census of Agriculture (URL <http://www.agcensus.usda.gov/Publications/2007/index.asp>). The 2001 county boundaries dataset was gridded from 1:100,000-scale 1990 county polygons (URL <http://water.usgs.gov/lookup/getspatial?county100>), post-1990 county polygons extracted from the 2000 and 2004 TIGER/Line files (<http://www.census.gov/geo/www/tiger/index.html>), and 1:70,000-scale shoreline boundaries (URL <http://coastalmap.marine.usgs.gov/GISdata/basemaps/coastlines/nos80k/nos80k-metadata.txt>)

Attribute label: domfrr

Attribute description: Name of dominant Farm Resource Region in the USA-part of the drainage basin.

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with U.S. Department of Agriculture Economic Research Service's Farm Resource Regions (URL <http://www.ers.usda.gov/publications/aib760/aib-760.pdf>) gridded at the 100-meter resolution.

Attribute label: domfrrcode

Attribute description: Numeric code for the dominant Farm Resource Region in the USA-part of the drainage basin.

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with U.S. Department of Agriculture Economic Research Service's Farm Resource Regions (URL <http://www.ers.usda.gov/publications/aib760/aib-760.pdf>) gridded at the 100-meter resolution.

Code	Farm Resource Region
1	Heartland
2	Northern Crescent
3	Northern Great Plains
4	Prairie Gateway
5	Eastern Uplands
6	Southern Seaboard
7	Fruitful Rim
8	Basin and Range
9	Mississippi Portal

Attribute label: frrpct_n (All variables of the form frrpct_n, where n is a 1-digit integer code that indicates the Farm Resource Region)

Attribute description: Percentage of the USDA Farm Resource Region in the USA-part of the drainage basin (rounded to 0.01 percent).

Source: Determined from digital maps of drainage basins provided by Study Unit and National Synthesis teams as of 08-24-2011, overlain with U.S. Department of Agriculture Economic Research Service's Farm Resource Regions (URL <http://www.ers.usda.gov/publications/aib760/aib-760.pdf>) gridded at the 100-meter resolution.

Attribute subdescription: USDA Farm Resource Region codes and names.

Code	Farm Resource Region
frrpct_0	Unclassified (the non-USA part of the basin)
frrpct_1	Heartland
frrpct_2	Northern Crescent
frrpct_3	Northern Great Plains
frrpct_4	Prairie Gateway
frrpct_5	Eastern Uplands
frrpct_6	Southern Seaboard
frrpct_7	Fruitful Rim
frrpct_8	Basin and Range
frrpct_9	Mississippi Portal

Attribute label: sname

Attribute description: Name of the stream-water site (pstaid).

Source: NAWQA Data Warehouse site information retrieval 09-16-2011, edited by Jeff Martin.

End METADATA documentation